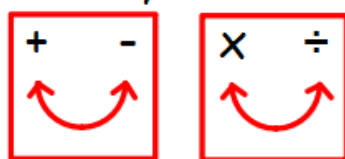


Equations: Reversing, bar models, rearranging, solving

Memory - inverse



Literacy

Write these keywords in alphabetical order

equation
solution
expression
reverse
equal
inverse
solve

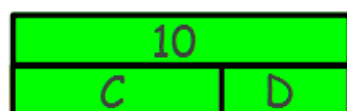
A₁
B₃
C₃
D₂
E₁
F₄
G₂

Skill 1 - Reversing with numbers

- a) $8 + 2 = 10$
 $2 = 10 - \dots$
 $8 = 10 - \dots$
- b) $7 + 4 = \dots$
 $7 = \dots$
 $4 = \dots$
- c) $13 - 5 = \dots$
 $13 = \dots$
 $13 - \dots = \dots$
- d) $4 \times 2 = \dots$
 $4 = \dots$
 $2 = \dots$

Help Card 1 - Using pictures

$$C + D = 10$$



$$Y - 2 = 6$$

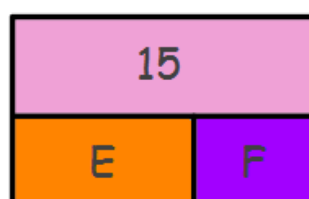


Skill 2 - Draw a bar picture & label it for each equation.

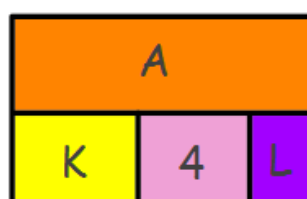
- a) $F + G = 17$
 b) $7 + H = Q$
 c) $P + T = W$
 d) $M - 3 = 7$
 e) $G - 4 = 11$
 f) $V - J = K$



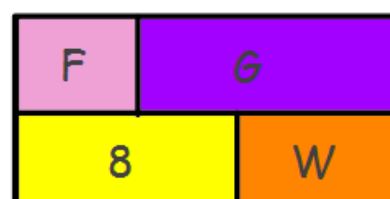
Skill 3 - Write 3 different equations for each bar picture



1.



2.



3.

Help Card 2: $X \div$



$$5K = 15$$

$$15 \div 5 = K$$

Skill 4 - Draw a bar picture with labels

a) $3M = 7$

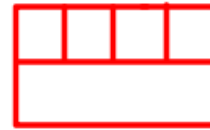
b) $4L = 13$

Challenge pictures

c) $2Y + Z = 8$

d) $3P + W = 11$

e) $2H - 3 = 17$



Skill 5 - Write 2 (or more) equations for each bar diagram

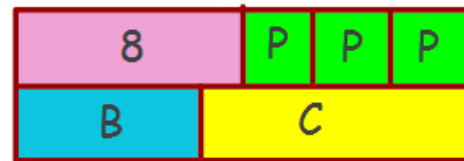
1.



2.



3.



4.



Stretch A - Draw diagrams and/or use reverse operations to help solve these equations

a) $A + 7.5 = 18$

b) $B - 0.3 = 6.2$

c) $8C = 20$

d) $3H + 2 = 10$

e) $7Y + 4 = 14.5$

f) $3W - 0.3 = 3$



Stretch B - Draw a bar picture & write the equation for each question.

1) The total cost of six apples and one banana is £5.

2) A cheese sandwich and two bags of crisps costs £4.50.



3) Joe has £20. He buys a CD and a chocolate bar. He has £8 left.

4) Sam has £50. He buys three books, a T-shirt and a pair of socks. He has £X left.



Stretch C - Application of knowledge - Solving equations

a) I think of a number, I add 4 and then multiply by 5. The answer is 25.5 so what number did I think of? (Show how you got an answer)

b) I think of a number, I halve it and then I add 6. Next I multiply by 3 to arrive at an answer of 12. What number did I start with? (Show)